

Bruhat Bangalore Mahanagara Palike

Executive Engineer Yelahanka Project Division

Name of Work: Improvements to Roads and Drains at Kogilu Layout main road and cross road in Ward no. 05, Byatarayanapura Sub-division

		Estimate Cost Rs.				100.00 Lakhs			
SI No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing B.S.Slabsand stacking etc complete. (I No-5.32,P No-25)								
	Basic rate	62.00							
	Area weightage 6%	3.72							
	Total	65.72							
	1st cross	2	151.00	0.90		271.80			
	2nd cross	2	148.00	0.90		266.40			
	3rd cross	2	140.00	0.90		252.00			
	4th cross	2	92.00	1.65		303.60			
	5th cross	2	89.00	1.65		293.70			
	6th cross	2	86.00	1.65		283.80			
	7th cross	2	85.00	1.65		280.50			
	7th cross - LHS	2	71.00	1.65		234.30			
	4th main	2	355.00	0.90		639.00			
	9th cross	2	115.00	1.65		379.50			
	12th cross	2	92.00	1.65		303.60			
	Anganwadi road	2	249.00	0.90		448.20			
						3956.40			
	Consider - 30%					1186.92	Sqm	65.72	78,004.38
2	Refixing stone slabs of drains and pointing in C.M (1:3). (I No-5.33,P No-25)								
	Basic rate	76.00							
	Area weightage 6%	4.56							
	Total	80.56							
	From item no. 1					1186.92			
						1186.92	Sqm	80.56	95,618.28
3	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.MORTH / Chapter 3(I No-19.1,P No-138)								
	Basic rate	82.00							
	Area weightage 6%	4.92							
	Sub total	86.92							
	Loading & Unloading	68.00							
	Lead 10 km	32.00							
	Total	186.92							
	Desilt								
	1st cross	2	50.00	0.60	0.55	33.00			
	2nd cross	2	50.00	0.60	0.55	33.00			
	3rd cross	2	50.00	0.60	0.55	33.00			
	4th cross	2	30.00	0.60	0.55	19.80			

Sr No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	5th cross	2	30.00	0.60	0.55	19.80			
	6th cross	2	30.00	0.60	0.55	19.80			
	7th cross	2	30.00	0.60	0.55	19.80			
	7th cross - LHS	2	25.00	0.60	0.55	16.50			
	2nd main	2	220.00	0.60	0.55	145.20			
	3rd main	2	215.00	0.60	0.55	141.90			
	4th main	2	50.00	0.60	0.55	33.00			
	9th cross	2	40.00	0.60	0.55	26.40			
	12th cross	2	30.00	0.60	0.55	19.80			
	Anganwadi road	2	60.00	0.60	0.55	39.60			
	For Road								
	1st cross	1	151.00	4.80	0.10	72.48			
	2nd cross	1	148.00	4.00	0.10	59.20			
	3rd cross	1	140.00	4.20	0.10	58.80			
	4th cross	1	92.00	4.10	0.10	37.72			
	5th cross	1	89.00	6.10	0.10	54.29			
	6th cross	1	86.00	4.60	0.10	39.56			
	5th-6th connecting	1	35.00	5.00	0.10	17.50			
	7th cross	1	85.00	4.30	0.10	36.55			
	7th cross - LHS	1	71.00	5.00	0.10	35.50			
	2nd main	1	220.00	4.30	0.10	94.60			
	3rd main	1	215.00	6.60	0.10	141.90			
	4th main	1	355.00	4.50	0.10	159.75			
	5th main	1	235.00	4.50	0.10	105.75			
	9th cross	1	115.00	4.15	0.10	47.73			
	12th cross	1	92.00	4.75	0.10	43.70			
	Anganwadi road	1	100.00	4.40	0.10	44.00			
	For CC Road								
	13th cross	1	68.00	2.50	0.40	68.00			
	1st cross - LHS	1	31.00	3.40	0.10	10.54			
	2nd cross - LHS	1	25.00	3.50	0.10	8.75			
	Dead end roads	3	45.00	3.80	0.40	205.20			
	Pipeline cut portion								
	For Road								
	1st cross	2	151.00	0.75	0.250	56.63			
	2nd cross	2	148.00	0.75	0.250	55.50			
	3rd cross	2	140.00	0.75	0.250	52.50			
	4th cross	2	92.00	0.75	0.250	34.50			
	5th cross	2	89.00	0.75	0.250	33.38			
	6th cross	2	86.00	0.75	0.250	32.25			
	5th-6th connecting	2	35.00	0.75	0.250	13.13			
	7th cross	2	85.00	0.75	0.250	31.88			
	2nd main	2	220.00	0.75	0.250	82.50			
	3rd main	2	215.00	0.75	0.250	80.63			
	4th main	2	355.00	0.75	0.250	133.13			
	5th main	2	235.00	0.75	0.250	88.13			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	9th cross	2	115.00	0.75	0.250	43.13			
	12th cross	2	92.00	0.75	0.250	34.50			
	Anganwadi road	2	249.00	0.75	0.250	93.38			
	Culvert - 10th cross	1	5.00	1.40	1.00	7.00			526037.74
						2814.24	Cum	186.92	
4	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No-158,I No-20.18)								
	Basic rate	1668.00							
	Area weightage 6%	100.08							
	Sub total	1768.08							
	Pipeline cut portion								
	For Road								
	1st cross	2.00	151.00	0.75	0.225	50.96			
	2nd cross	2.00	148.00	0.75	0.225	49.95			
	3rd cross	2.00	140.00	0.75	0.225	47.25			
	4th cross	2.00	92.00	0.75	0.225	31.05			
	5th cross	2.00	89.00	0.75	0.225	30.04			
	6th cross	2.00	86.00	0.75	0.225	29.03			
	5th-6th connecting	2.00	35.00	0.75	0.225	11.81			
	7th cross	2.00	85.00	0.75	0.225	28.69			
	7th cross - LHS	1.00	71.00	5.00	0.225	79.88			
	2nd main	2.00	220.00	0.75	0.225	74.25			
	3rd main	2.00	215.00	0.75	0.225	72.56			
	4th main	2.00	355.00	0.75	0.225	119.81			
	5th main	2.00	235.00	0.75	0.225	79.31			
	9th cross	2.00	115.00	0.75	0.225	38.81			
	12th cross	2.00	92.00	0.75	0.225	31.05			
	Anganwadi road	2.00	249.00	0.75	0.225	84.04			
	25%, House connection & Bad stretch								
	1st cross	1	151.00	4.80	0.225	163.08			
	2nd cross	1	148.00	4.00	0.225	133.20			
	3rd cross	1	140.00	4.20	0.225	132.30			
	4th cross	1	92.00	4.10	0.225	84.87			
	5th cross	1	89.00	6.10	0.225	122.15			
	6th cross	1	86.00	4.60	0.225	89.01			
	5th-6th connecting	1	35.00	5.00	0.225	39.38			
	7th cross	1	85.00	4.30	0.225	82.24			
	2nd main	1	220.00	4.30	0.225	212.85			
	3rd main	1	215.00	6.60	0.225	319.28			
	4th main	1	355.00	4.50	0.225	359.44			
	5th main	1	235.00	4.50	0.225	237.94			
	9th cross	1	115.00	4.15	0.225	107.38			
	12th cross	1	92.00	4.75	0.225	98.33			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basic rate	60607.00							
	Area weightage 6%	3636.42							
	Total	64243.42							
	Culvert, 90kg/cum	1	2.93	90.00		0.26			
						0.26	Tn	64243.42	16,912.08
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	5111.00							
	Culvert - 10th cross	1	5.00	1.20		6.00			
						6.00	Sqm	5111.00	30,666.00
10	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, / . laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling , the form work as per drawing) & spreading the concrete with shovels, - rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications.M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine cum aggregate @ 0.46cum)(P.No-181, I No-22.6.1)								
	Basic rate	5866.00							
	Area weightage 6%	351.96							
	Total	6217.96							
	For CC Road								
	13th cross	1	68.00	2.50	0.15	25.50			
	1st cross - LHS	1	31.00	3.40	0.15	15.81			
	2nd cross - LHS	1	25.00	3.50	0.15	13.13			
	Dead end roads	3	45.00	3.80	0.15	76.95			
						131.39	Cum	6217.96	816946.67
11	Vacuum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P.No-177, I No-22.7)								
	Basic rate	90.00							
	Area weightage 6%	5.40							
	Total	95.40							
	For CC Road								
	13th cross	1	68.00	2.50		170.00			
	1st cross - LHS	1	31.00	3.40		105.40			
	2nd cross - LHS	1	25.00	3.50		87.50			
	Dead end roads	3	45.00	3.80		513.00			
						875.90	Sqm	95.40	83,560.86

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502.(P.No-161,I No-21.6)								
	Basic rate	26.00							
	Area weightage 6%	1.56							
	Total	27.56							
	For Road								
	1st cross	1	151.00	4.80		724.80			
	2nd cross	1	148.00	4.00		592.00			
	3rd cross	1	140.00	4.20		588.00			
	4th cross	1	92.00	4.10		377.20			
	5th cross	1	89.00	6.10		542.90			
	6th cross	1	86.00	4.60		395.60			
	5th-6th connecting	1	35.00	5.00		175.00			
	7th cross	1	85.00	4.30		365.50			
	7th cross - LHS	1	71.00	5.00		355.00			
	2nd main	1	220.00	4.30		946.00			
	3rd main	1	215.00	6.60		1419.00			
	4th main	1	355.00	4.50		1597.50			
	5th main	1	235.00	4.50		1057.50			
	9th cross	1	115.00	4.15		477.25			
	12th cross	1	92.00	4.75		437.00			
	Anganwadi road	1	249.00	4.40		1095.60			
						11145.85	Sqm	27.56	307179.63
13	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-163,I No-21.17.6)								
	Basic rate	5929.00							
	Area weightage 6%	355.74							
	Total	6284.74							
	For Road								
	1st cross	1	151.00	4.80	0.05	36.24			
	2nd cross	1	148.00	4.00	0.05	29.60			
	3rd cross	1	140.00	4.20	0.05	29.40			
	4th cross	1	92.00	4.10	0.05	18.86			
	5th cross	1	89.00	6.10	0.05	27.15			
	6th cross	1	86.00	4.60	0.05	19.78			
	5th-6th connecting	1	35.00	5.00	0.05	8.75			
	7th cross	1	85.00	4.30	0.05	18.28			
	7th cross - LHS	1	71.00	5.00	0.05	17.75			
	2nd main	1	220.00	4.30	0.05	47.30			
	3rd main	1	215.00	6.60	0.05	70.95			